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**Appendix C**  
**Signal Warrant Analysis**



# SIGNAL WARRANT WORKSHEET

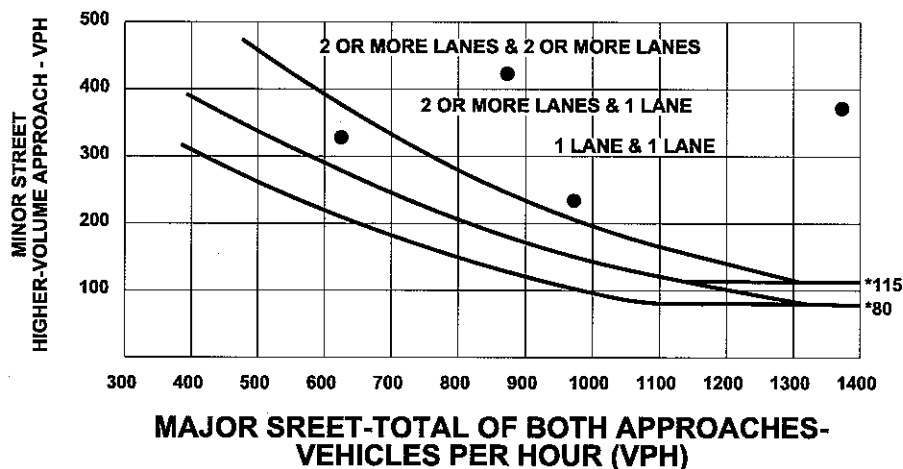
## WARRANT 2 (FOUR HOUR VOLUME) & WARRANT 3 (PEAK HOUR VOLUME)

Project Name: Lexington Technology Park  
 Location: Lexington, MA  
 Compiled By: NCB

Project No: 127-3679-09001  
 Data Source:   
 Date: 5/26/2009

2003 Edition

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume



Hour	Major Street Volume	Minor Street Volume
7-8 AM	975	235
8-9 AM	1371	377
4-5 PM	623	327
5-6 PM	864	418

Warrant 2 Met?

YES

NO

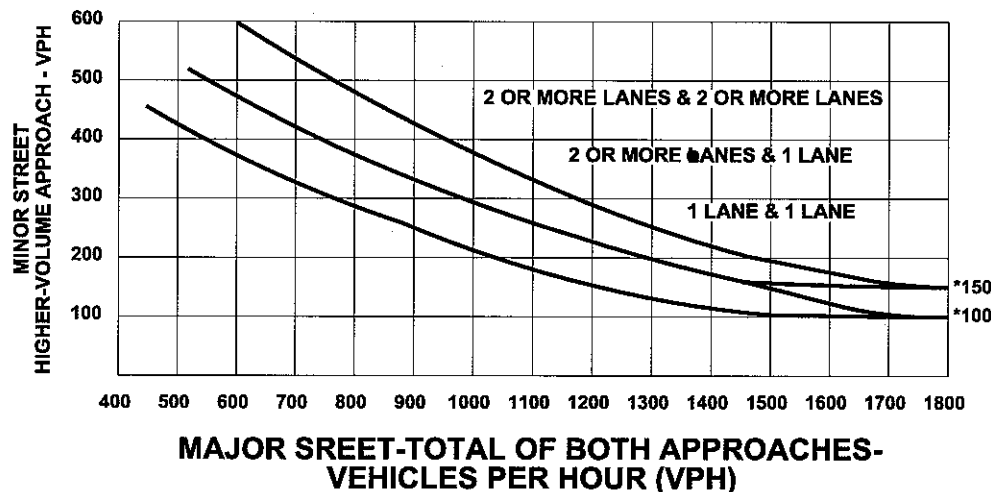
(CIRCLE)

MAJOR STREET-TOTAL OF BOTH APPROACHES-VEHICLES PER HOUR (VPH)

\*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

2003 Edition

Figure 4C-3. Warrant 3, Peak Hour



Hour	Major Street Volume	Minor Street Volume
8-9 AM	1371	377

Warrant 3 Met?

YES

NO

(CIRCLE)

MAJOR STREET-TOTAL OF BOTH APPROACHES-VEHICLES PER HOUR (VPH)

\*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Not to Scale



TETRA TECH RIZZO

Spring St./Patriot Way/Hayden St.  
 Signal Warrant Worksheet  
 Existing Volumes

# SIGNAL WARRANT WORKSHEET

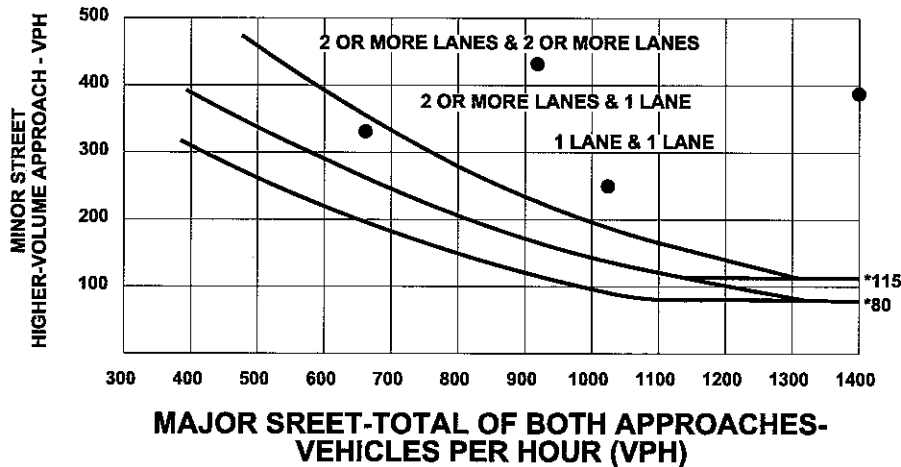
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 Location: Lexington, MA  
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 Date: 5/26/2009

2003 Edition

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume



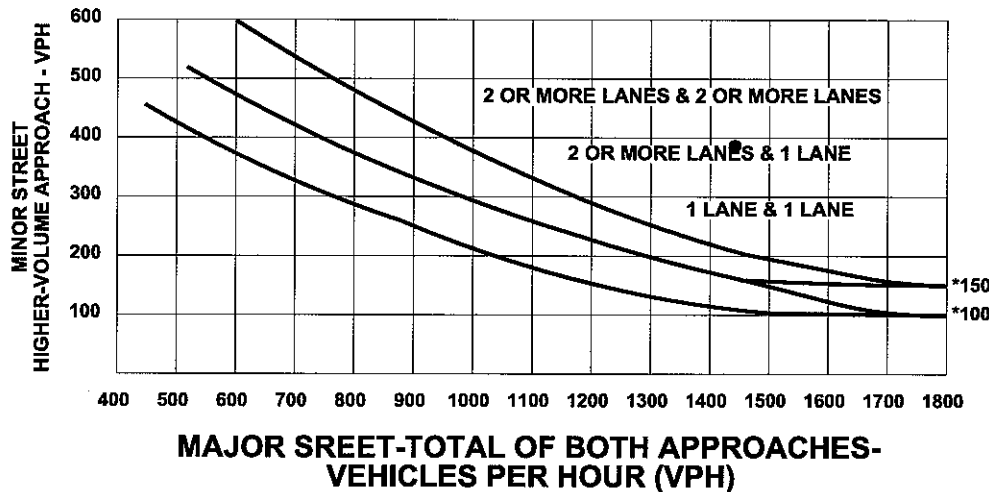
Hour	Major Street Volume	Minor Street Volume
7-8 AM	1025	247
8-9 AM	1441	396
4-5 PM	655	344
5-6 PM	909	439

Warrant 2 Met?		
YES	<input checked="" type="radio"/> NO	(CIRCLE)

\*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

2003 Edition

Figure 4C-3. Warrant 3, Peak Hour



Hour	Major Street Volume	Minor Street Volume
8-9 AM	1441	396

Warrant 3 Met?		
<input checked="" type="radio"/> YES	NO	(CIRCLE)

\*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Not to Scale



TETRA TECH RIZZO

Spring St./Patriot Way/Hayden St.  
 Signal Warrant Worksheet  
 2014 No Build Volumes

# SIGNAL WARRANT WORKSHEET

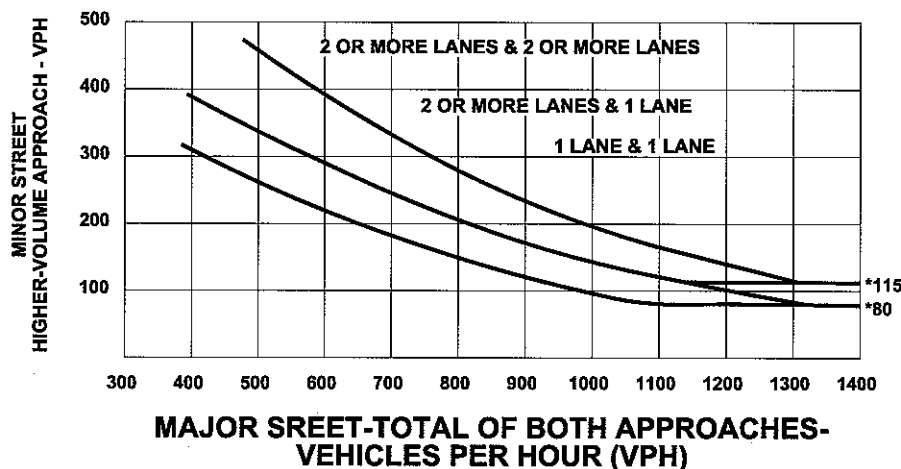
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 Location: Lexington, MA  
 Compiled By: NCB

Project No: 127-3679-09001  
 Data Source:   
 Date: 5/26/2009

2003 Edition

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume



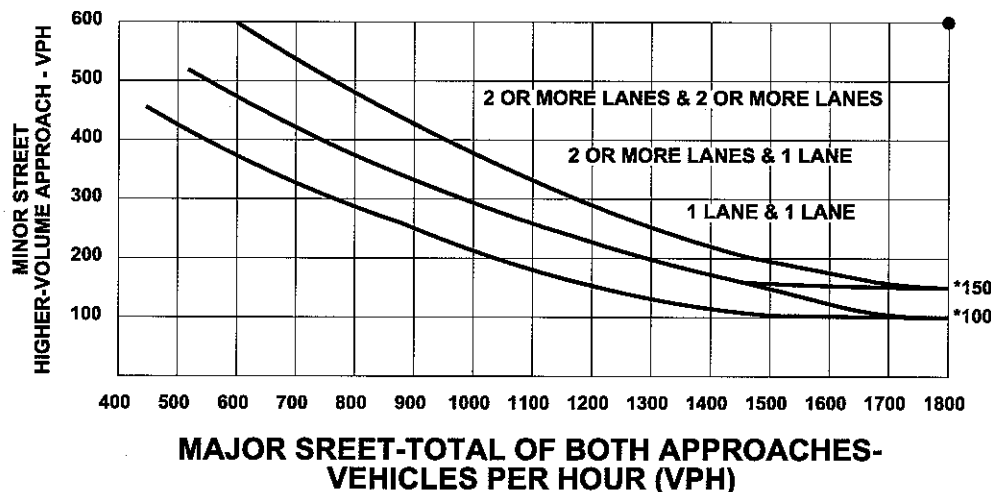
Hour	Major Street Volume	Minor Street Volume
7-8 AM		
8-9 AM		
4-5 PM		
5-6 PM		

Warrant 2 Met?		
YES	NO	(CIRCLE)

\*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

2003 Edition

Figure 4C-3. Warrant 3, Peak Hour



Hour	Major Street Volume	Minor Street Volume
8-9 AM	2175	688

Warrant 3 Met?		
(YES)	NO	(CIRCLE)

\*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Not to Scale



TETRA TECH RIZZO

Spring St./Patriot Way/Hayden St.  
 Signal Warrant Worksheet  
 2014 Build Volumes